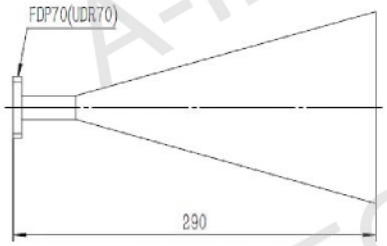
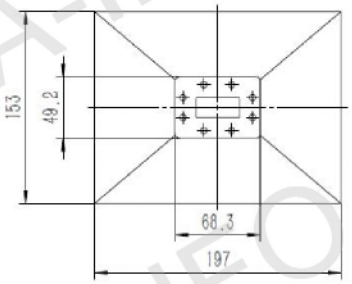
Technical Specification

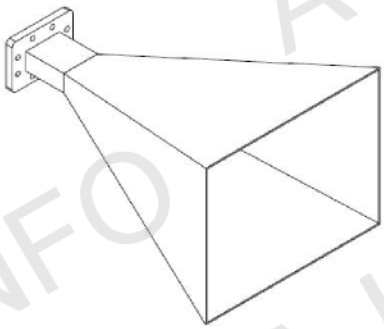
Frequency Range(GHz)	5.85 – 8.20	
Waveguide	WR137	
Gain(dBi)	20 Typ.	
Polarization	Linear	
3dB Beamwidth(deg)	18 Typ.	
Cross Pol. Isolation(dB)	45 Typ.	
VSWR	A Type:	1.10:1 Typ.
	C Type:	1.25:1 Typ.
Output	A Type:	FDP70(UDR70)
	C Type:	N-Female or SMA-Female
Material	Al	
Size(mm)	A Type:	197 x 153 x 290
	C Type:	197 x 153 x 338
Net Weight(Kg)	A Type:	0.6 Around
	C Type:	0.7 Around

Outline Drawing (Size: mm)

A Type (With FDP70 Output)

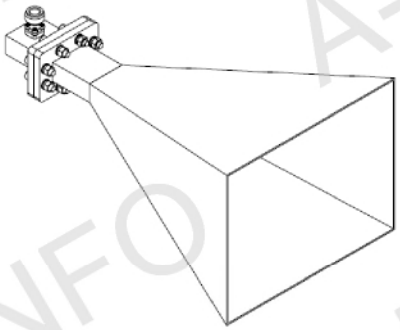






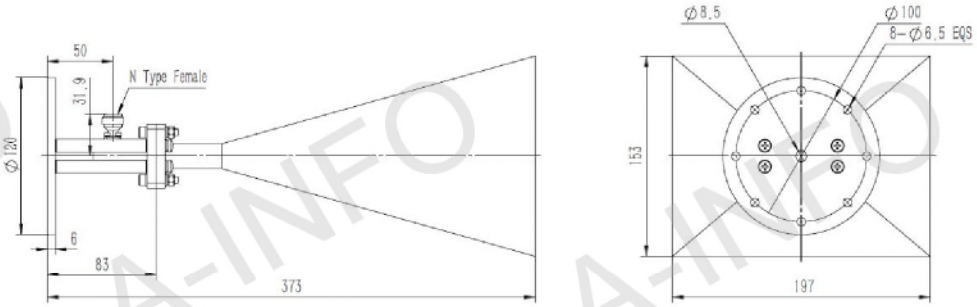
C Type (With N-Female Output)

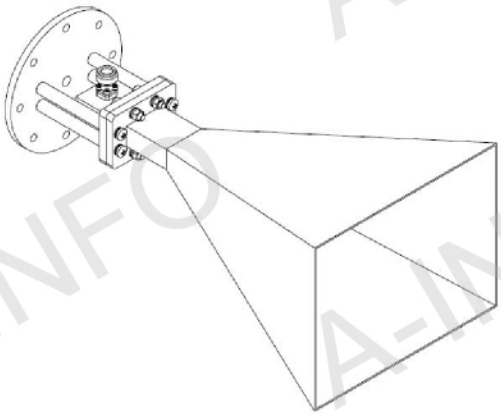
For SMA-Female output outline drawing, please contact A-INFO.



C Type (With N-Female Output & Round Mounting Bracket)

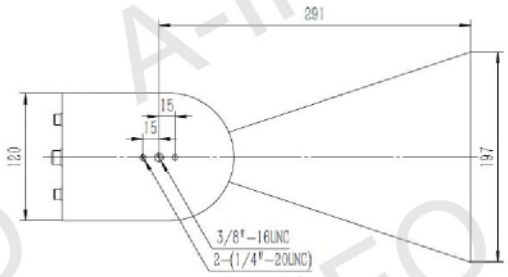
For SMA-Female output outline drawing, please contact A-INFO.

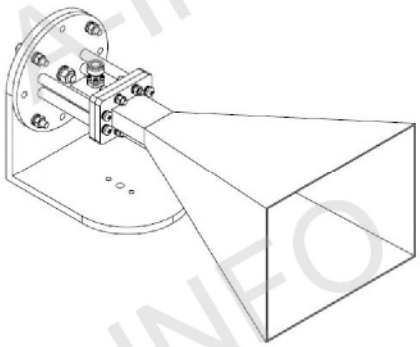


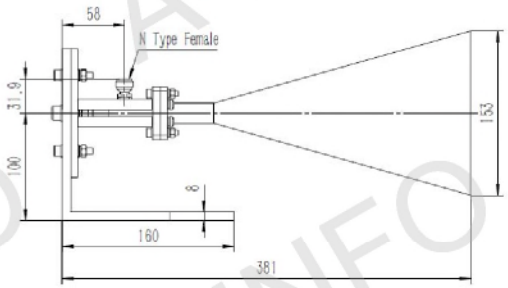


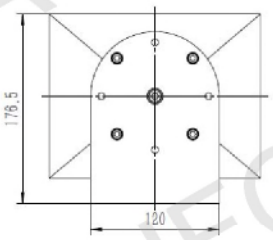
C Type (With N-Female Output & L Type Mounting Bracket)

For SMA-Female output outline drawing, please contact A-INFO.

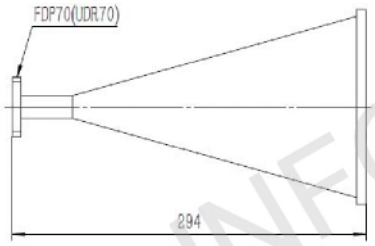


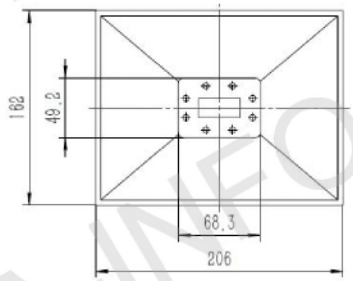


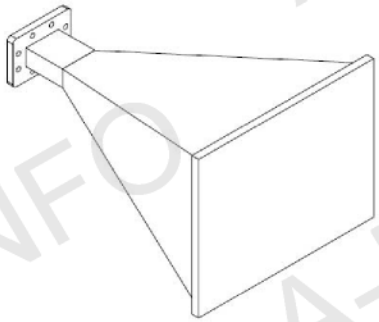




A Type (With Radome)

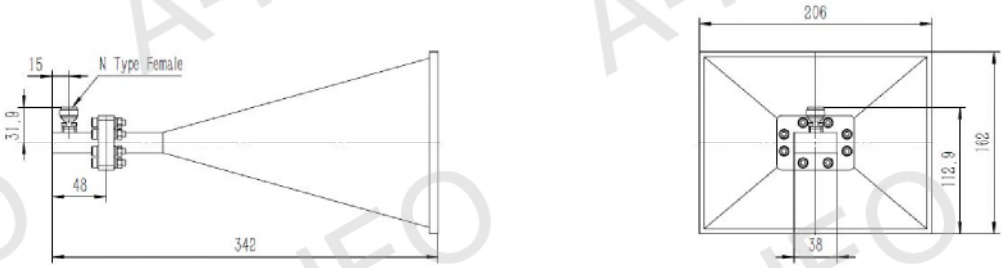


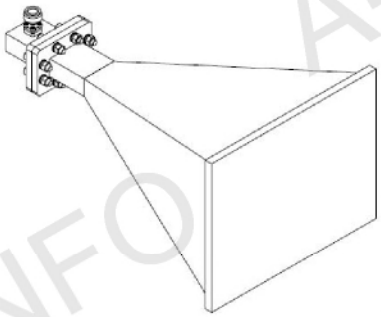




C Type (With N-Female Output & Radome)

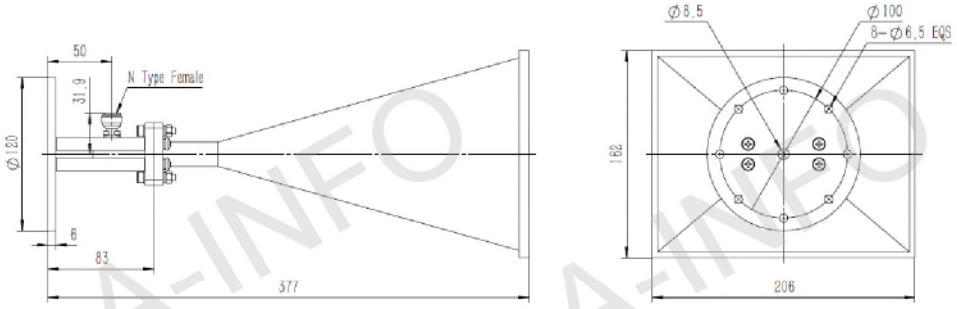
For SMA-Female output outline drawing, please contact A-INFO.

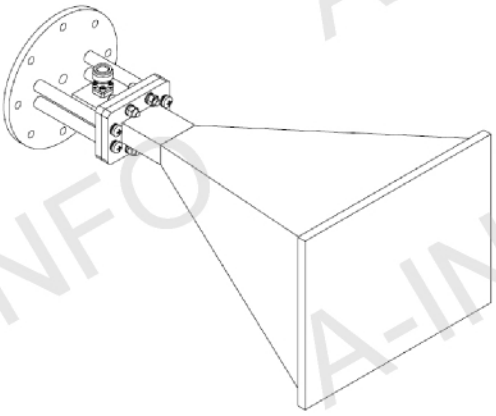




C Type (With N-Female Output & Round Mounting Bracket & Radome)

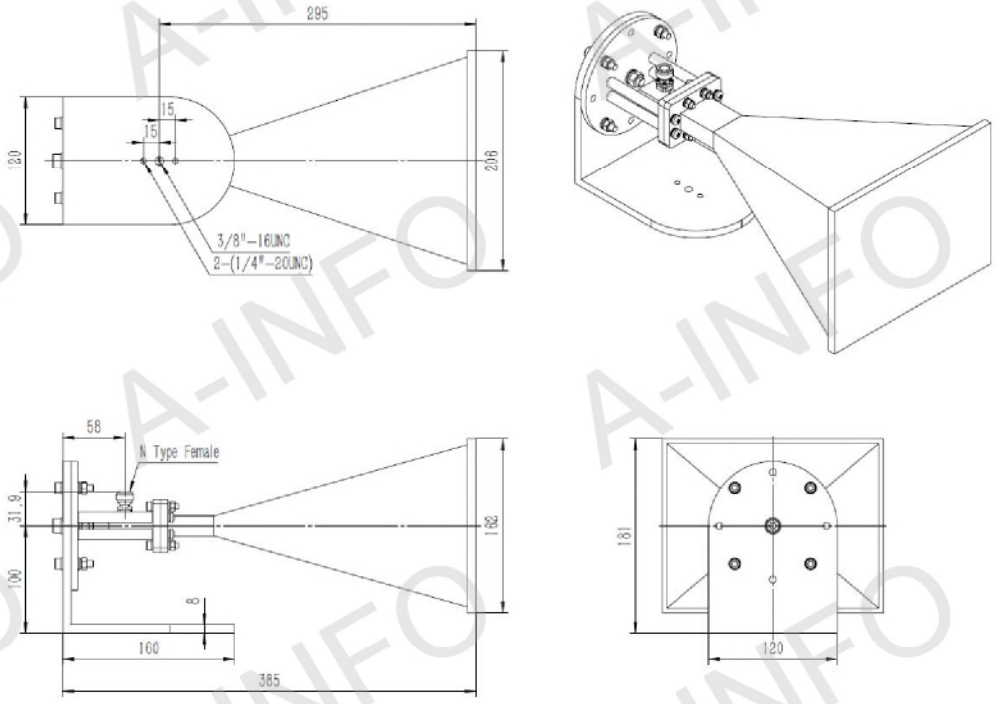
For SMA-Female output outline drawing, please contact A-INFO.



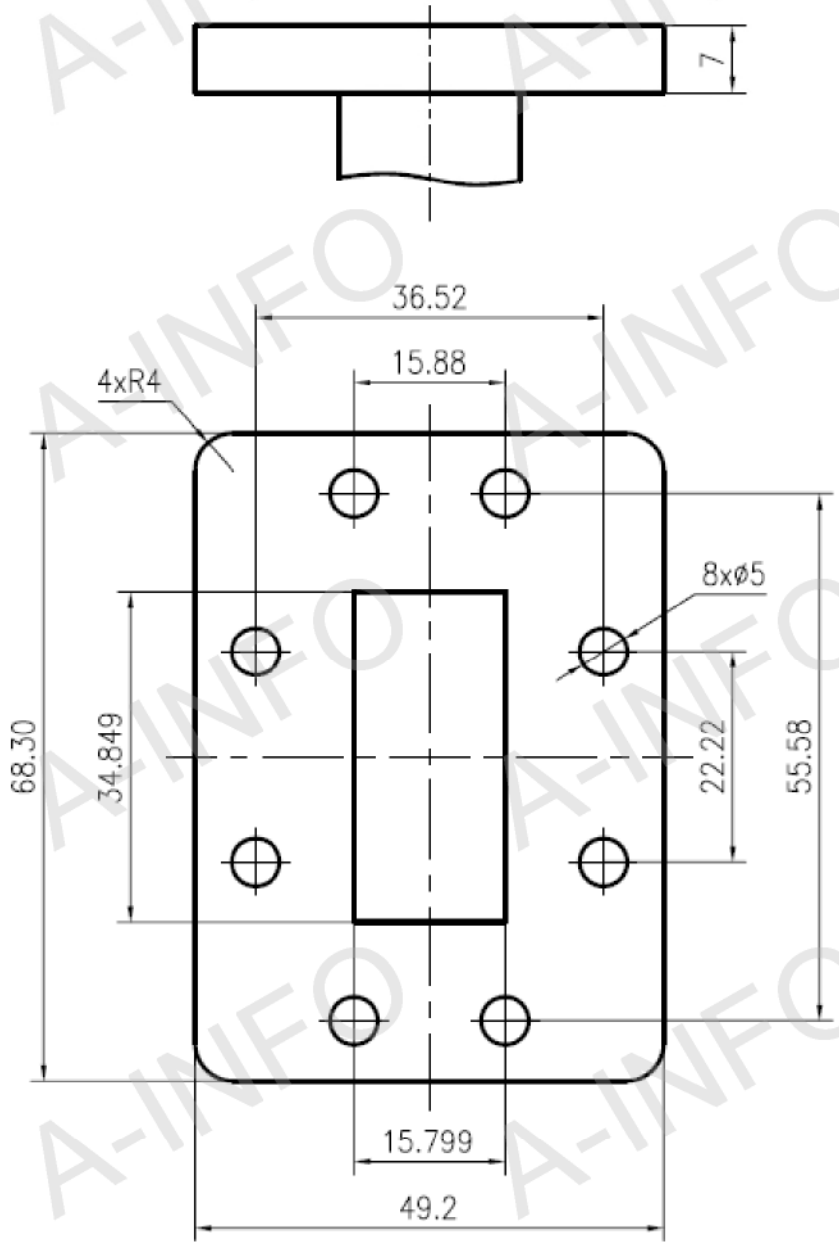


C Type (With N-Female Output & L Type Mounting Bracket & Radome)

For SMA-Female output outline drawing, please contact A-INFO.



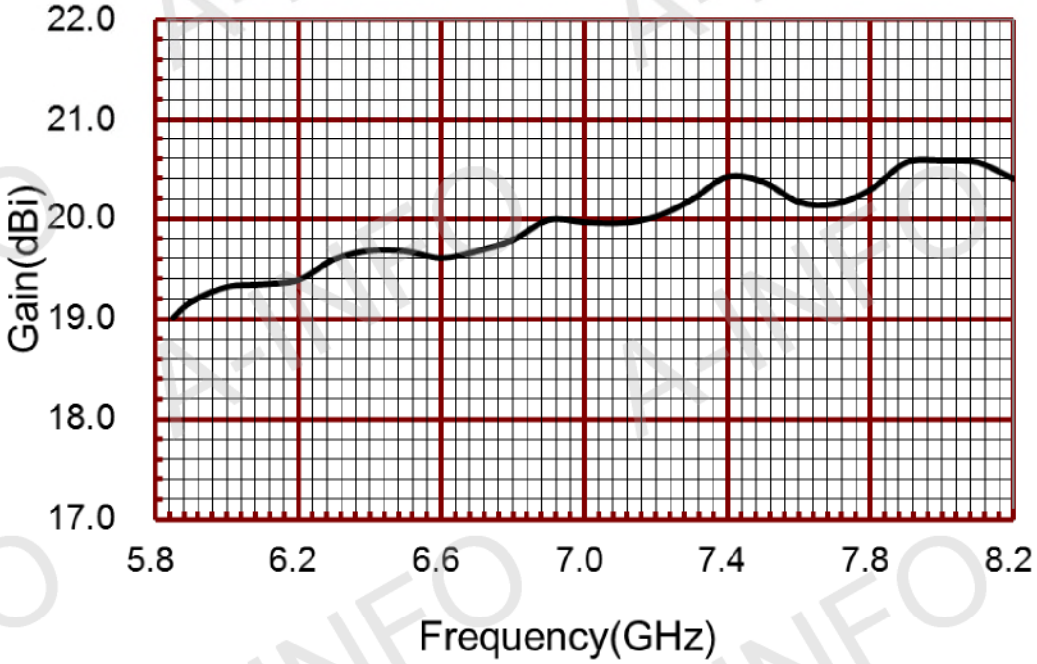
Flange Drawing (Size: mm)

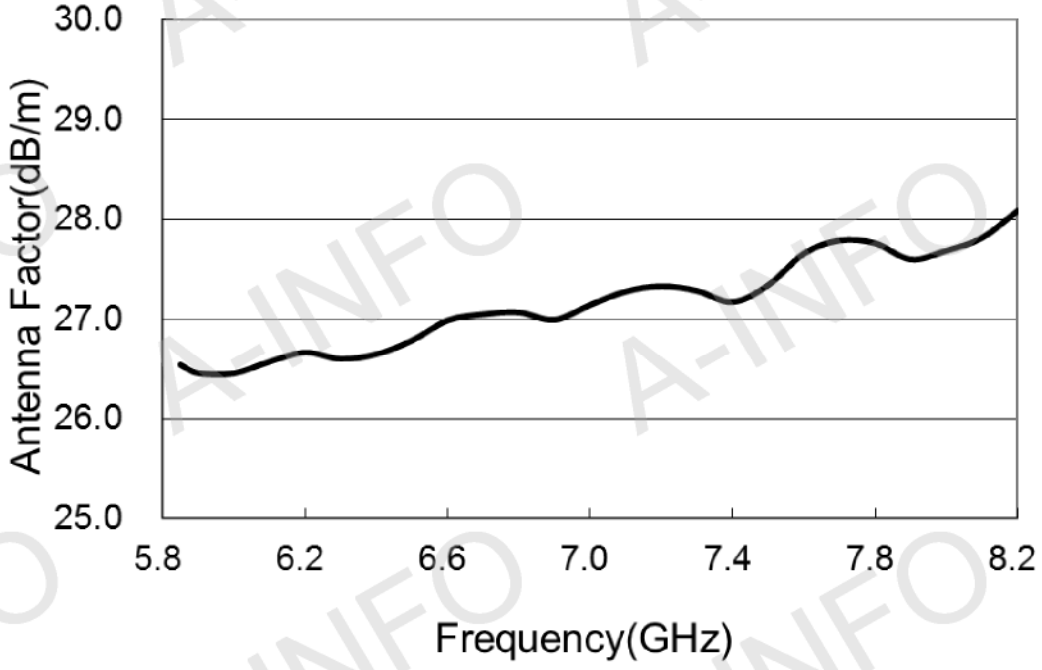


FDP70

Test Results

1. Gain and Antenna Factor



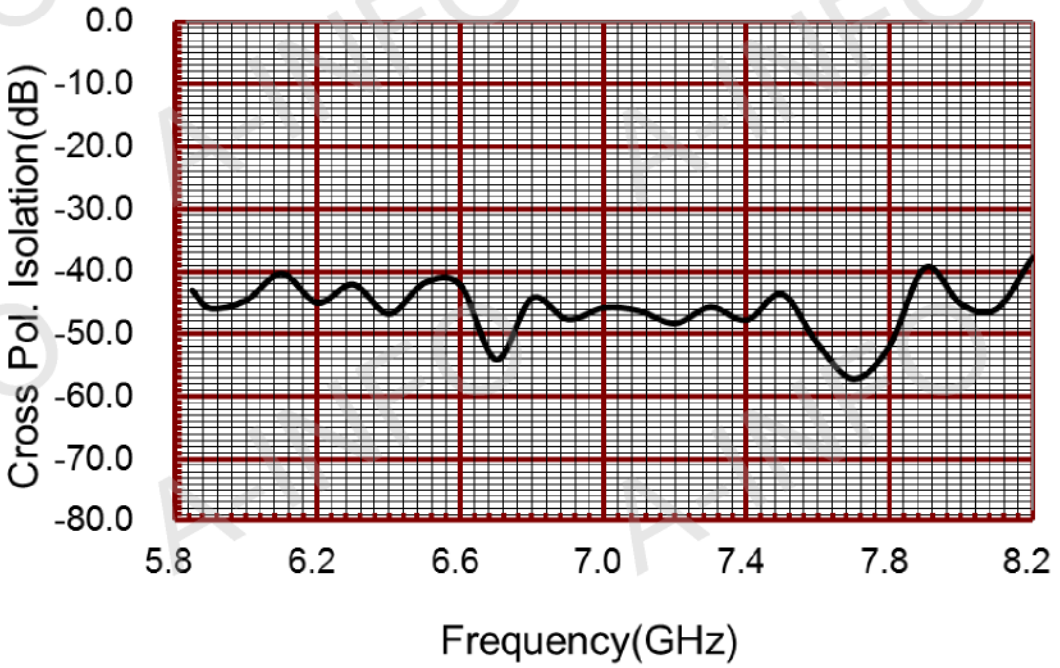


Distributed by: Reliant EMC LLC, Tel. +408-320-9644/+408-916-5750, www.reliantemc.com

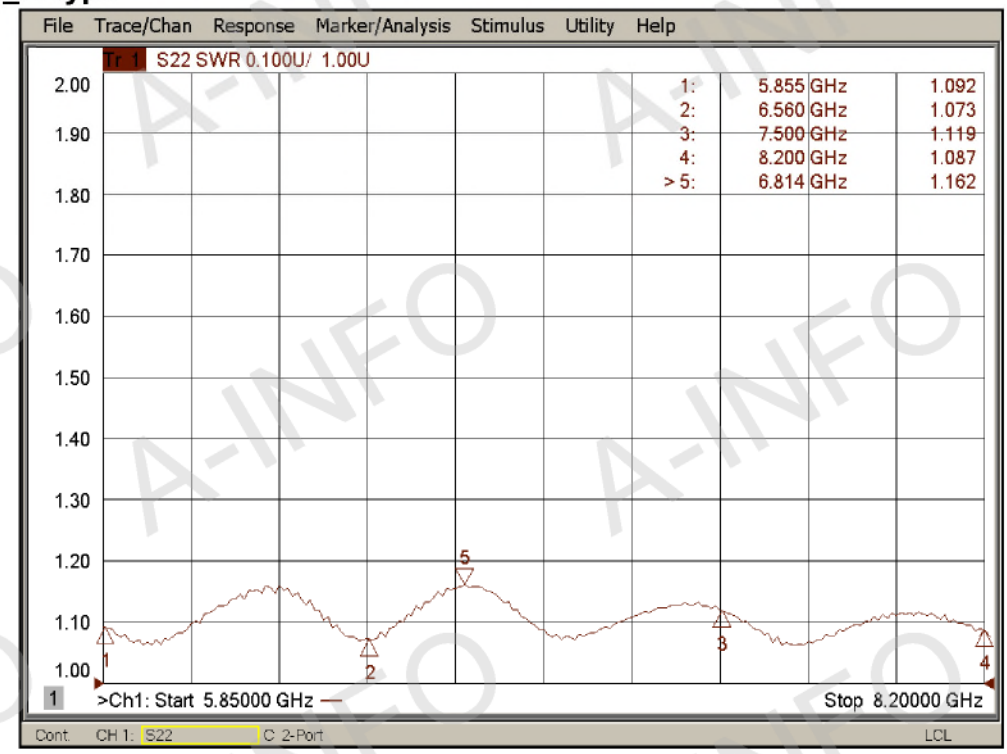
Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
5.85	19.01	26.54
5.90	19.17	26.457
6.00	19.32	26.455
6.10	19.35	26.57
6.20	19.39	26.67
6.30	19.60	26.60
6.40	19.69	26.65
6.50	19.68	26.79
6.60	19.61	27.00
6.70	19.68	27.06
6.80	19.79	27.08
6.90	19.99	27.00
7.00	19.97	27.15

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
7.10	19.96	27.28
7.20	20.03	27.34
7.30	20.19	27.29
7.40	20.42	27.18
7.50	20.37	27.35
7.60	20.17	27.66
7.70	20.15	20.80
7.80	20.29	27.77
7.90	20.56	27.61
8.00	20.58	27.69
8.10	20.56	27.82
8.20	20.40	28.09

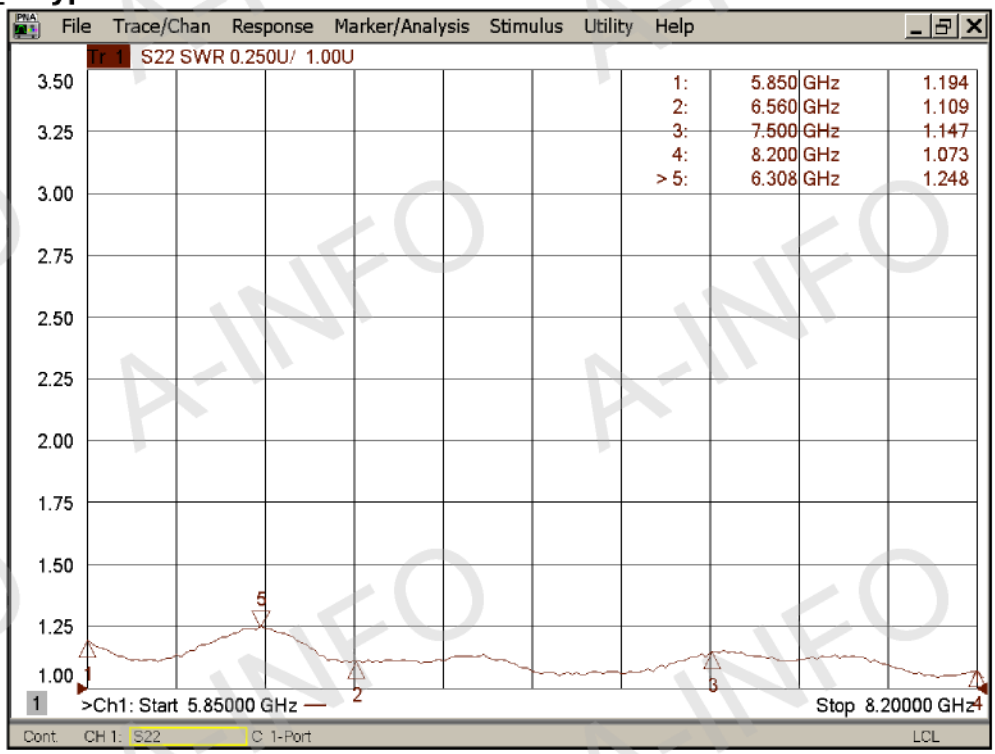
2. Cross Polarization Isolation



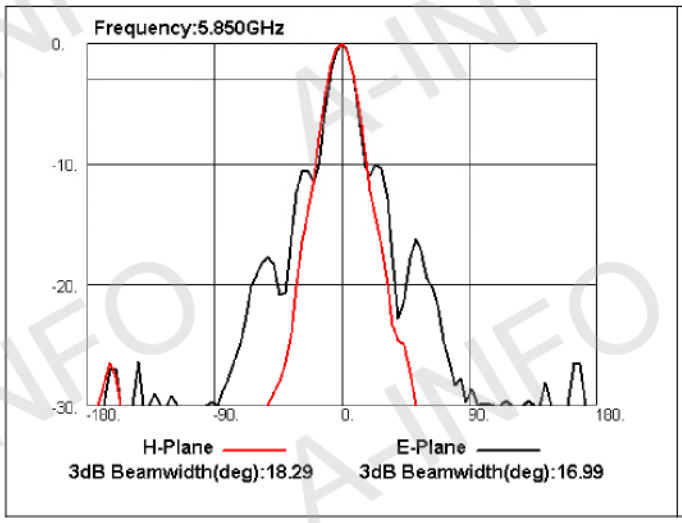
3. VSWR_A Type

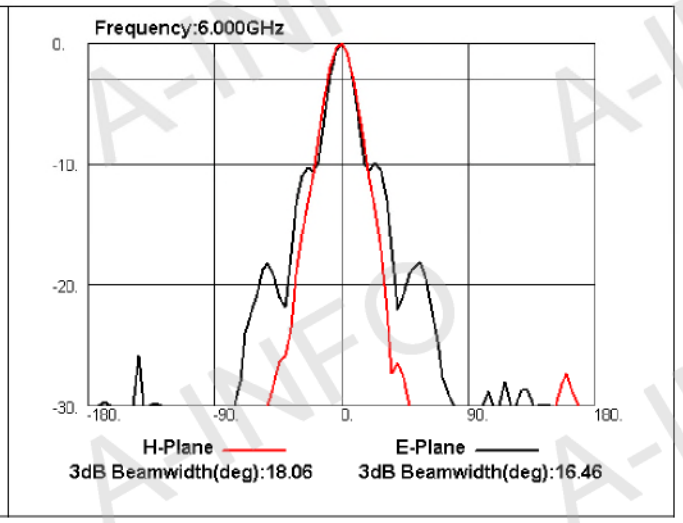


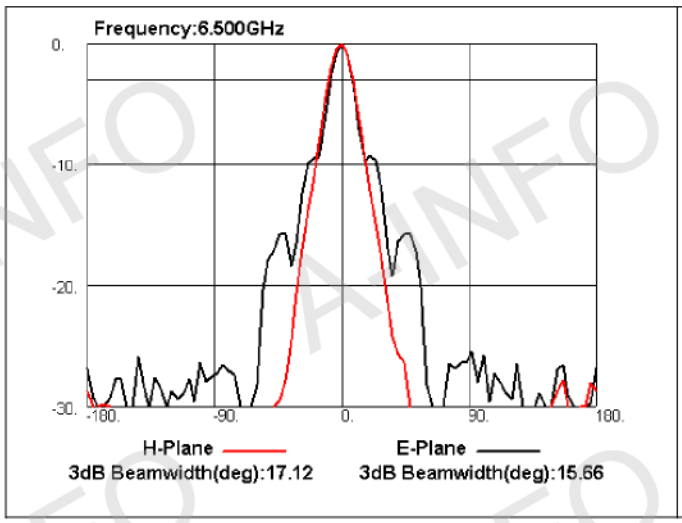
VSWR_C Type

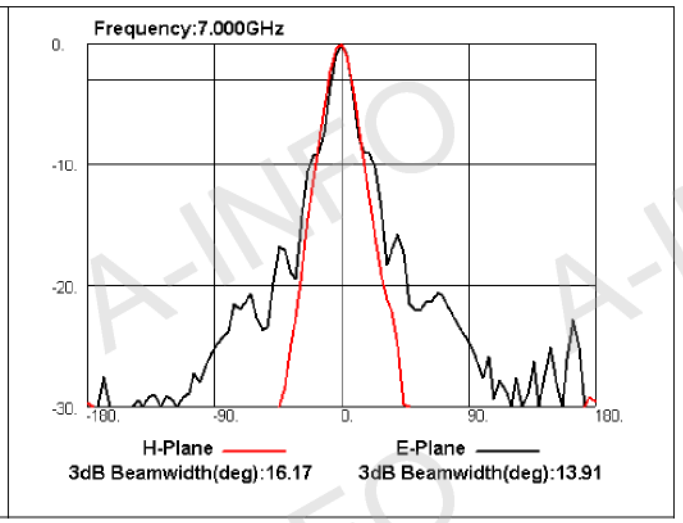


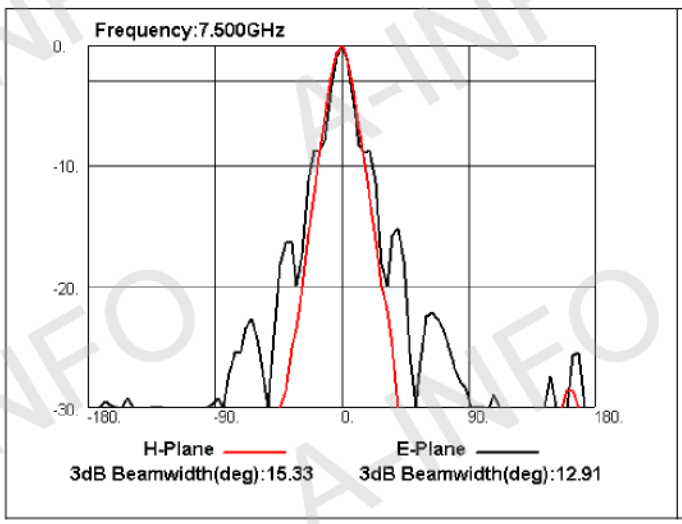
4. Pattern

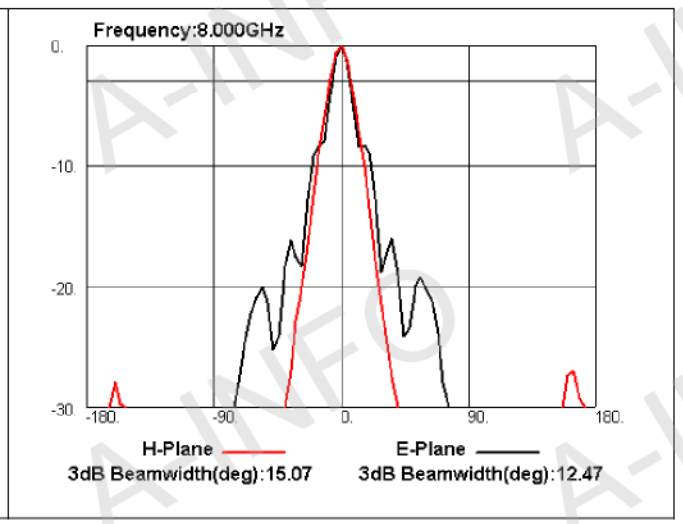

Frequency:5.850GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):18.29
3dB Beamwidth(deg):16.99

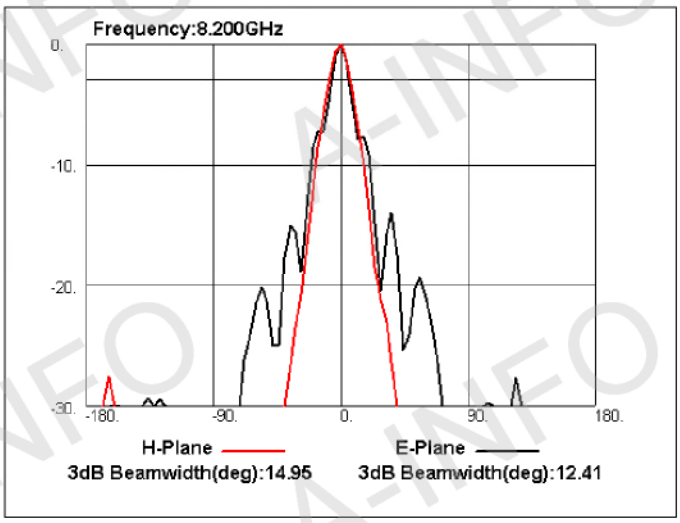

Frequency:6.000GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):18.06
3dB Beamwidth(deg):16.46


Frequency:6.500GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):17.12
3dB Beamwidth(deg):15.66


Frequency:7.000GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):16.17
3dB Beamwidth(deg):13.91


Frequency:7.500GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):15.33
3dB Beamwidth(deg):12.91


Frequency:8.000GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):15.07
3dB Beamwidth(deg):12.47


Frequency:8.200GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
3dB Beamwidth(deg):14.95
E-Plane
3dB Beamwidth(deg):12.41